PTO/SB/103 (8-96)
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Declaration and Power of Attorney for Patent Application Erklärung für Patentanmeldungen mit Vollmacht

German Language Declaration

Als nacshstehend benannter Erfinder erkläre ich hiermit an Eides Statt:

As a below named inventor, I hereby declare that:

patent is sought on the invention entitled

daß mein Wohnsitz, meine Postanschrift und meine Staatsangehörigkeit den im nachstehenden nach meinem Namen aufgeführten Angaben entsprechen, daß ich nach bestem Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den den ein Patent für die Erfindung mit folgendem Titel beantragt wird:

My residence, post office address and citizenship are as stated next to $\ensuremath{\mathsf{my}}$ name.

I believe I am the original, first and sole inventor (if only one name is

listed below) or an original, first and joint inventor (if plural names are

listed below) of the subject matter which is claimed and for which a

SURFACE-EMITTING SEMI-CONDUCTOR LASERS HAVING BURIED TUNNEL JUNCTIONS AND METHODS OF PRODUCING

deren Beschreibung hier beigefügt ist, es sei denn (in diesem Falle Zutreffendes bitte ankreuzen), diese Erfindung

wurde angemeldet am 19 May 2005
unter der US-Anmeldenummer oder unter der
Internationalen Anmeldenummer im Rahmen des
Vertrags über die Zusammenarbeit auf dem Gebiet
des Patentwesens (PCT)
10/535,688 und am
abgeändert (falls zutreffend).

Ich bestätige hiermit, daß ich den Inhalt der oben angegebenen Patentanmeldung, einschließlich der Ansprüche, die eventuell durch einen oben erwähnten Zusatzantrag abgeändert wurde, durchgesehen und verstanden habe

Ich erkenne meine Pflicht zur Offenbarung jeglicher Informationen an, die zur Prüfung der Patentfähigkeit in Einklang mit Titel 37, Code of Federal Regulations, § 1.56 von Belang sind.

SURFACE-EMITTING SEMI-CONDUCTOR LASERS HAVING BURIED TUNNEL JUNCTIONS AND METHODS OF PRODUCING

the specification of which is attached heretounless the following box is checked:

was filed on 19 May 2005
as United States Application Number or PCT
International Application Number
10/535,688 and was amended on
(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

[Page 1 of 3]

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner of Patents and Trademarks, Washington, DC 20231.

German Language Declaration

Ich beanspruche hiermit ausländische Prioritätsvorteile gemäß Title 35, United States Code, § US-Code, § 119 (a)-(d), bzw. § 365(b) aller unten aufgeführten Auslandsanmeldungen für Patente oder Erfinderurkunden, oder § 365(a) aller PCT internationalen Anmeldungen, welche wenigstens ein Land ausser den Vereinigten Staaten von Amerika benennen, und habe nachstehend durch ankreuzen sämtliche Auslands- anmeldungen für Patente bzw. Erfinderurkunden oder PCT internationale Anmeldungen angegeben, deren Anmeldetag dem der Anmeldung. für welche Priorität beansprucht wird, vorangeht.

Anmeldung, für welche Priorität beansprucht wird, vorangeht. Prior Foreign Applications (Frühere ausländische Anmeldungen) 102 55 307.6 (Number) (Country) (Nummer) (Land) 10305079 DE (Number) (Country) (Nummer) (Land) Ich beanspruche hiermit Prioritätsvorteile unter Title 35, US-Code, § 119(e) aller US-Hilfsanmeldungen wie unten aufgezählt. (Application No.) (Filing Date) (Aktenzeichen) (Anmeldetag) (Application No.) (Filing Date) (Aktenzeichen) (Anmeldetag) Ich beanspruche hiermit die mir unter Title 35, US-Code, § 120 zustehenden Vorteile aller unten aufgeführten US-Patentanmeldungen bzw. § 365(c) aller PCT internationalen Anmeldungen, welche die Vereinigten Staaten von Amerika benennen, und erkenne, insofern der Gegenstand eines jeden früheren Anspruchs dieser Patentanmeldung nicht in einer US-Patentanmeldung, bzw. PCT internationalen Anmeldung in in einer gemäß dem ersten Absatz von Title 35, US-Code, § 112 vorgeschriebenen Art und Weise offenbart wurde, meine Pflicht zur Offenbarung jeglicher Informationen an, die zur Prüfung der Patentfähigkeit in Einklang mit Title 37, Code of Federal Regulations, § 1.56 von Belang sind und die im Zeitraum zwischen dem Anmeldetag der früheren Patentanmeldung und dem nationalen oder im Rahmen des Vertrags über die Zusammenarbeit auf dem Gebiet des Patentwesen (PCT) gültigen internationalen Anmeldetags bekannt geworden sind.

Ich erkläre hiermit, daß alle in der vorliegenden Erklärung von mir gemachten Angaben nach bestem Wissen und Gewissen der Wahrheit entsprechen, und ferner daß ich diese eidesstattliche Erklärung in Kenntnis dessen ablege, daß wissentlich und vorsätzlich falsche Angaben oder dergleichen gemäß § 1001, Title 18 des US-Code strafbar sind und mit Geldstrafe und/oder Gefängnis bestraft werden können und daß derartige wissentlich und vorsätzlich falsche Angaben die Rechtswirksamkeit der vorliegenden Patentanmeldung oder eines aufgrund deren erteilten Patentes gefährden können.

November 6, 2003

(Filing Date)

(Anmeldetag)

(Filing Date)

(Anmeldetag)

PCT/EP021/012433

(Application No.)

(Application No.)

(Aktenzeichen)

(Aktenzeichen)

I hereby claim foreign priority under Title 35, 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

	Priority Not Claimed Priorität nicht beanspruct
November 27, 2002 Day/Month/Year Filed) Tag/Monat/Jahr der Anmeldung)	
February 7, 2003 Day/Month/Year Filed) Tag/Monat/Jahr der Anmeldung)	
hereby claim the benefit under Title 3 Jnited States provisional application(s	5, United States Code, § 119(e) of any listed below.

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

Expired (Status) (patented, pending, abandoned) (Status) (patentiert, schwebend, aufgegeben)

(Status) (patented, pending, abandoned) (Status) (patentiert, schwebend, aufgegeben)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM

Officiation diffess it displays a valid CMB Control number.
10/535,688
May 19, 2005
Markus-Christian Amann
Surface-Emitting Semi-Conductor Lasers Having Buried Tunnel Junctions And Methods Of Producing Same
Not Yet Assigned
Not Yet Assigned
436589

I hereby revoke all previous powers of attorney given in the above-identified application.					
OR	sociated with the Customer Number:	30955	5		
Practitioner(s) n	amed below: Name	Regi	stration Number		
	s) or agent(s) to prosecute the application ark Office connected therewith.	identified above, ar	nd to transact all business in the United States		
Please recognize or change the correspondence address for the above-identified application to: The address associated with the above-mentioned Customer Number OR The address associated with Customer Number: OR					
Firm or Individual Name			1		
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City		State	ZIP		
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I am the: ☐ Applicant/Inventor. ☐ Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)					
SIGNATURE of Applicant or Assignee of Record					
Signature	X 10hilly fund.	ر ا	Date \(\lambda \ 08 \ \ 200 i \)		
Name	X VOLLNHALS GERAL	Telepho	ne 49 89 5484 2000		
Title and Company					
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*. *Total of 1 forms are submitted.					

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

German Language Declaration

VERTRETUNGSVOLMACHT: Als benannter Erfinder beauftrage ich hiermit den (die) nachstehend aufgeführten Patentanwalt (Patentanwälte) und/oder Vertreter mit der Verfolgung der vorliegenden Patentanmeldung sowie mit der Abwicklung aller damit verbundenen Angelegenheiten vor dem US-Patent- und Markenamt: (Name(n) und Registrationsnummer(n) auflisten)

LATHROP & GAGE LC

Postanschrift:

2345 Grand Boulevard, Suite 2400 Kansas City, Missouri 64108

Telefonische Auskünfte: (Name und Telefonnummer)

Curtis A. Vock, Reg. No. 38,356 (720) 931-3011

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number)

LATHROP & GAGE LC

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Kansas City, Missouri 64108

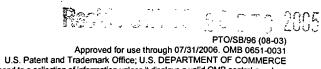
Direct Telephone Calls to: (name and telephone number)

Curtis A. Vock, Reg. No. 38,356 (720) 931-3011

Vor- und Zuname des einzigen oder ersten Erfinders	Full name of sole or first inventor
Markus-Christian AMANN	Markus-Christian AMANN
Unterschrift des Erfinders Datum 10.8.05	Inventor's signature Date 10.8.05
Wohnsitz Munchen, Germany DEX	Residence Muchen, Germany
Staatsangehörigkeit Germany	Citizenship Germany
Postanschrift Aronstabstrasse 6	Post Office Address Aronstabstrasse 6
80935 Muchen Germany	80935 Muchen Germany
Vor- und Zuname des zweiten Miterfinders (falls zutreffend)	Full name of second joint inventor, if any
Unterschrift des zweiten Erfinder Datum	Second Inventor's signature Date
Wohnsitz	Residence
Staatsangehörigkeit	Citizenship
Postanschrift	Post Office Address

(Im Falle dritter und weiterer Miterfinder sind die entsprechenden Informationen und Unterschriften hinzuzufügen.)

(Supply similar information and signature for third and subsequent joint inventors.)



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STATEMENT UNDER 37 CFR 3.73(b)		
Applicant/Patent Owner: Markus-Christian Amann		
Application No./Patent No.: 10/535,688 Filed/Issue Date: May 19, 2005		
Entitled: Surface-Emitting Semi-Conductor Lasers Having Buried Tunnel Junctions And Methods Of Producing Same		
Vertilas GmbH, a, a		
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc		
states that it is:		
1. the assignee of the entire right, title, and interest; or		
2. an assignee of less than the entire right, title, and interest		
The extent (by percentage) of its ownership interest is % in the patent application/patent identified above by virtue of either:		
A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.		
OR .		
B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:		
To: The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.		
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☐ Additional documents in the chain of title are listed on a supplemental sheet.		
Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]		
The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.		
OP/OP/2005 VOLLNHALS GERALD		
Date / Typed or printed name		
49 89 5484 2000 X // Hell / Liu (
Telephone Number Signature		
MANAGING DIRECTOR		
Title		

This collection of information is required by 37 CFR 3.73(b). The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. 1450.

Sample Form (former PTO/SB/15) (06-03)

Docket Number (Optional)

ASSIGNMENT OF APPLICATION 436589 Whereas, I/We, Markus-Christian AMANN of Muchen, Germany, hereafter referred to as applicant, have invented certain new and useful improvements in Surface-Emitting Semi-Conductor Lasers Having Buried Tunnel Junctions And Methods Of Producing Same for which an application for a United States Patent was filed on 19 May 2005, Application Number 10/535,688. for which an application for a United States Patent was executed on _____, and Whereas, Vertilas Gmbh of Garching, Germany herein referred to "assignee" whose mailing address is Lichtenbergstrasse 8, 85748, Garching, Germany is desirous of acquiring the entire right, title and interest in the same; Now, therefore, in consideration of the sum of one dollars (\$1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all Patents which may be granted therefor in the United States, I/We hereby authorize and request the Commissioner of Patents and Trademarks to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made. Arguit Executed this $\angle \mathcal{V}$ day of . 2005. at_

Gardin	
d	M:-C: A (Signature)
State of) County of)	SS:
Before me personally appeared said	
day of, 20	trument to be his free act and deed this
Seal	(Notary Public)

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required. See below*.

 [☐] Total of 1 forms are submitted.